

Amendments to the Claims

The following listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (amended) An electronic detonator for use in an electronic blasting system including a blasting machine and a logger, wherein said electronic detonator is configured and/or programmed enter a blaster mode when it is attached to a blasting machine and to enter a logger mode when it is attached to a logger, wherein said blasting machine has a first operating voltage range and said logger has a second operating voltage range and said electronic detonator is configured and/or programmed to distinguish between said first and second operating voltage ranges, and wherein said first and second operating voltage ranges do not overlap each other.
2. (amended) The electronic detonator of claim 1, wherein said electronic detonator is further configured and/or programmed to implement safety precautions when it is not in blaster mode.
3. (amended) The electronic detonator of claim 2, further including a firing capacitor, wherein said safety precautions include ~~one or more precautions selected from the following group: (a)~~ automatic discharging of a firing

capacitor, ~~(b) preventing acceptance of any charge command,~~  
and ~~(c) preventing a charging switch from closing.~~

4. (amended) The electronic detonator of claim 2, further including a firing capacitor, wherein said safety precautions include ~~one or more precautions selected from the following group: (a) preventing a firing capacitor from charging, and (b) preventing acceptance of any firing~~ command.
5. (amended) The electronic detonator of claim 2, wherein said safety precautions include preventing a detonator firing switch from closing.
6. (canceled)
7. (canceled)
8. (original) An electronic blasting system including an electronic detonator wherein the system is configured and/or programmed so that said electronic detonator enters either blaster mode or logger mode depending upon whether it is attached to a blasting machine or a logger, wherein said system includes a blasting machine having a first operating voltage range, wherein said logger has a second operating voltage range, and wherein and said electronic detonator is configured and/or programmed to distinguish between said first and second operating voltage ranges, and

wherein said first and second operating voltage ranges do not overlap each other.

9. (amended) The electronic blasting system of claim 8, wherein said electronic detonator is configured and/or programmed to implement safety precautions when it is not in blaster mode.
10. (amended) The electronic blasting system of claim 9, wherein said electronic detonator includes a firing capacitor and wherein said safety precautions include the disabling of said firing capacitor.
11. (amended) The electronic blasting system of claim 9, wherein said safety precautions include preventing a detonator firing switch from closing.
12. (canceled)
13. (canceled)
14. (amended) A method of selecting between logger mode and blaster mode in an electronic detonator, comprising the following steps:
  - a) attaching to an electronic detonator a master device that is either a blasting machine having a first operating voltage range or a logger having a second operating voltage range wherein said first and second operating

voltage ranges do not overlap each other, without first manually setting said electronic detonator in a mode that is selected based on ~~the identity of~~ whether said master device is a blasting machine or a logger;

- b) operating said attached master device at its respective operating voltage range and issuing one or more ~~identifying~~ signals from said master device; [[and,]]
- c) said electronic detonator distinguishing whether said attached master device is a blasting machine or a logger; and,
- d) operating said electronic detonator in a mode that corresponds to whether said attached master device is a blasting machine or a logger ~~particular identifying signal issued from said master device~~.

15. (canceled)

16. (amended) The method of claim 14, further comprising the step of said electronic detonator effecting safety precautions when it is not in blaster mode.

17. (amended) The method of claim 16, wherein said electronic detonator includes a firing capacitor and wherein said safety precautions include the disabling of said firing capacitor.

18. (amended) The ~~system~~ method of claim 16, wherein said safety precautions include preventing a detonator firing switch from closing.
19. (amended) The method of claim 17, wherein said safety precautions include preventing a detonator firing switch from closing.
20. (canceled)
21. (new) The method of claim 14, wherein step a) comprises attaching said master device to said electronic detonator via a connection that includes a bus.
22. (new) The method of claim 14, further comprising the step of said electronic detonator communicating to said attached master device via current modulation based talkback.
23. (new) The electronic detonator of claim 2, wherein said safety precautions include preventing acceptance of any charge command.
24. (new) The electronic detonator of claim 2, wherein said safety precautions include preventing a charging switch from closing.
25. (new) The electronic detonator of claim 2, further including a firing capacitor, and wherein said safety

precautions include preventing acceptance of any firing command.

26. (new) The electronic blasting system of claim 9, wherein said electronic detonator includes a firing capacitor and wherein said safety precautions include the automatic discharging of a firing capacitor.

Amendments to the Drawings

The attached drawing sheet includes a change to Fig. 4. The sheet includes only Fig. 4, the original of which it replaces. Per the objection made in the Office Action, this figure has been revised to include a depiction of the grounding of pin 13.

Attachments: Replacement Sheet  
Annotated Sheet Showing Changes